

GENERAL NOTES

- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCE AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- INSTALL MICROLOOP PROBES AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS DUE TO THE INSTALLATION OF TRAFFIC SIGNAL EQUIPMENT.

RIGHT-OF-WAY LINE

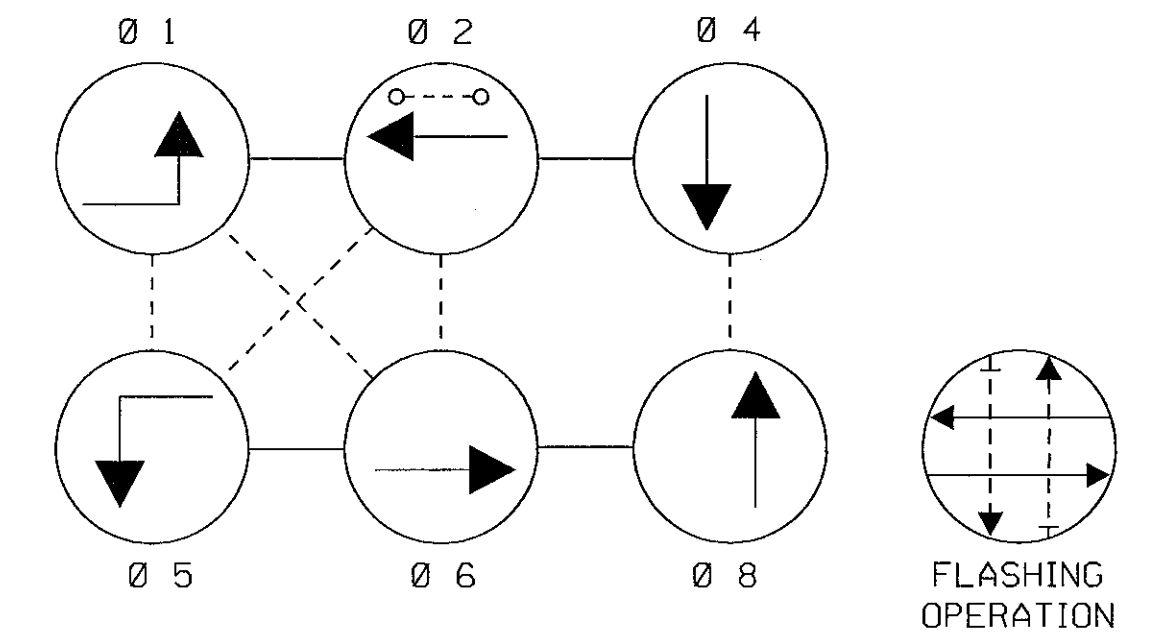
PROPOSED VIDEO DETECTION CAMERA

A,B,C,D



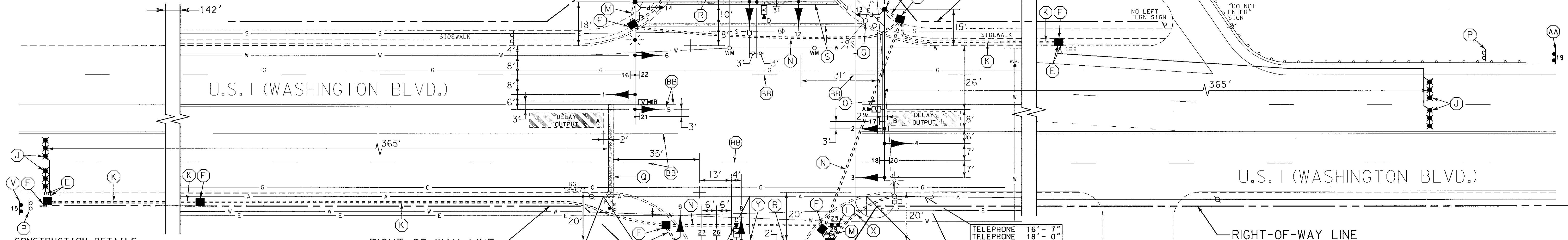
VIDEO DETECTION ZONE

NEMA PHASING



PHASING NOTES:

- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

- INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./70 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, VIDEO DETECTION CAMERAS MOUNTED ON MAST ARM, SIGNS AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- INSTALL 27 FT. STEEL POLE WITH A 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM AND SIGNS (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- INSTALL 27 FT. STEEL POLE WITH A 38 FT. (CUT TO 30 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM AND SIGNS (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE). (NOTE: SIGNAL HEAD 9 SHALL BE MOUNTED ON STEEL POLE 15 FT. ABOVE GRADE).
- INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 V (60 AMPS). (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE).
- INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- INSTALL HANDHOLE.
- REMOVE AND DISPOSE EXISTING SHA STREET LIGHTING POLE AND FOUNDATION 12 IN. BELOW GRADE.
- INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN.
- INSTALL MICROLOOP PROBE SET WITH 1000 FT. LEAD-IN.
- INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- INSTALL ASSOCIATED SHIELD ASSEMBLIES "NORTH, U.S. 1, LEFT ARROW" AND "NORTH, U.S. 1, RIGHT ARROW" ON TWO 4 IN. X 6 IN. TREATED WOOD POSTS.
- INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
- REMOVE AND DISPOSE OF EXISTING SHA METERED SERVICE PEDESTAL. CONTRACTOR SHALL COORDINATE WITH BGE FORCES TO DISCONNECT ELECTRICAL SERVICE.
- REMOVE EXISTING WHITE ON GREEN STREET NAME PANEL AND SUPPORTS LOCATED APPROXIMATELY 495 FT. AND 410 FT. IN ADVANCE OF THE INTERSECTION ON SOUTHBOUND AND NORTHBOUND U.S. 1 RESPECTIVELY.
- INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
- REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
- REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (CROSS WALK).
- INSTALL 5 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS FOR 100 FT. ON ROWANBERRY DR.
- REMOVE EXISTING R1-1 SIGN AND SUPPORT.

TELEPHONE 22'-9 1/2"
TELEPHONE 24'-11"
TELEPHONE 25'-3"
FIBER OPTIC 26'-0"
NEUTRAL 27'-8"
TELEPHONE 25'-8"
GUY 28'-8"
SECONDARY 32'-8"
PRIMARY OVER 40'

TELEPHONE 17'-3"
TELEPHONE 17'-10"
TELEPHONE 19'-0"
GUY 19'-10"
FIBER OPTIC 20'-4"
FIBER OPTIC 22'-7"
SECONDARY 26'-2"
PRIMARY 38'-0"

TELEPHONE 17'-1"
TELEPHONE 17'-0"
TELEPHONE 18'-0"
TELEPHONE 18'-2"
TELEPHONE 20'-0"
FIBER OPTIC 20'-8"
FIBER OPTIC 22'-0"
FIBER OPTIC 25'-7"
SECONDARY 27'-0"
PRIMARY 38'-0"

CONSTRUCTION DETAILS CONT.

- INSTALL GM-1 "ROWANBERRY DR/PINE AVE, NEXT SIGNAL" SIGN (72 IN. X 36 IN.) ON TWO 4 IN. X 6 IN. TREATED WOOD POSTS APPROXIMATELY 450 FT. IN ADVANCE OF THE INTERSECTION ON NORTHBOUND U.S. 1.
- INSTALL ASSOCIATED SHIELD ASSEMBLIES "SOUTH, U.S. 1, LEFT ARROW" AND "SOUTH, U.S. 1, RIGHT ARROW" ON TWO 4 IN. X 6 IN. TREATED WOOD POSTS.
- INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE AND 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND TELEPHONE SERVICE IN COMMON TRENCH. CAP AND MARK CONDUITS AT UTILITY POLE FOR USE BY OTHERS.
- CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
- INSTALL 5 IN. DOUBLE YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS FOR 100 FT. ON ROWANBERRY DR.
- INSTALL GM-2 "PINE AVE/ROWANBERRY DR, NEXT SIGNAL" SIGN (72 IN. X 36 IN.) ON TWO 4 IN. X 6 IN. TREATED WOOD POSTS APPROXIMATELY 650 FT. IN ADVANCE OF THE INTERSECTION ON SOUTHBOUND U.S. 1.
- REMOVE EXISTING PAVEMENT MARKINGS BEYOND STOP LINE.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	SS
STORM DRAIN	SD
WATER	W
CABLE TV	TV

WR&A
Whitman, Requardt
and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

REVISIONS	APPROVALS
	Amy H. Brall 7-27-04 TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION
	Michael R. Brall 7-27-04 CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	7-27-04 DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION TRAFFIC SIGNALIZATION PLAN U.S. 1 AND ROWANBERRY DR./PINE AVE. DRAWN BY: S. BLOSS CHECKED BY: N. LEARY SCALE: 1" = 20' DATE: 7/21/2004				F.A.P. NO. S.H.A. NO. COUNTY: LOG MILE:		TS NO. 3939 T.I.M.S. NO. 6047 1 OF 2	
F.A.P. NO. S.H.A. NO. COUNTY: LOG MILE:				F.A.P. NO. S.H.A. NO. COUNTY: LOG MILE:		F.A.P. NO. S.H.A. NO. COUNTY: LOG MILE:	